

(11) A description of any failures to conform to any of the labeling and instruction requirements;

(12) Performance impact results, stating the precise location of impact, type of anvil used, velocity prior to impact, and maximum acceleration measured in g's;

(13) The results of the positional stability test;

(14) The results of the dynamic strength of retention system test;

(15) The name and location of the test laboratory;

(16) The name of the person(s) who performed the test;

(17) The date of the test; and

(18) The system check results.

(c) *Format for records.* The records required to be maintained by this section may be in any appropriate form or format that clearly provides the required information. Certification test results may be kept on paper, microfiche, computer disk, or other retrievable media. Where records are kept on computer disk or other retrievable media, the records shall be made available to the Commission on paper copies, or via electronic mail in the same format as paper copies, upon request.

#### **Subpart D—Requirements For Bicycle Helmets Manufactured From March 17, 1995, Through March 10, 1999**

##### **§ 1203.51 Purpose and basis.**

The purpose and basis of this subpart is to protect bicyclists from head injuries by ensuring that bicycle helmets comply with the requirements of appropriate existing voluntary standards, as provided in 15 U.S.C. 6004(a).

##### **§ 1203.52 Scope and effective date.**

(a) This subpart D is effective March 17, 1995, except for § 1203.53(a)(8), which is effective March 10, 1998. This subpart D shall apply to bicycle helmets manufactured from March 17, 1995, through March 10, 1999, inclusive. Such bicycle helmets shall comply with the requirements of one of the standards specified in § 1203.53. This subpart shall be considered a consumer product safety standard issued under the Consumer Product Safety Act.

(b) The term “bicycle helmet” is defined at § 1203.4(b).

(c) These interim mandatory safety standards will not apply to bicycle helmets manufactured after March 10, 1999. Those helmets are subject to the requirements of Subparts A through C of this part 1203.

##### **§ 1203.53 Interim safety standards.**

(a) Bicycle helmets must comply with one or more of the following standards. The standards in paragraphs (a)(1) through (a)(7) of this section are incorporated herein by reference:

(1) American National Standards Institute (ANSI) standard Z90.4-1984, Protective Headgear for Bicyclists,

(2) ASTM standards F 1447-93 or F 1447-94, Standard Specification for Protective Headgear Used in Bicycling, incorporating the relevant provisions of ASTM F 1446-93 or ASTM F 1446-94, Standard Test Methods for Equipment and Procedures Used in Evaluating the Performance Characteristics of Protective Headgear, respectively,

(3) Canadian Standards Association standard, Cycling Helmets—CAN/CSA-D113.2-M89,

(4) Snell Memorial Foundation (Snell) 1990 Standard for Protective Headgear for Use in Bicycling (designation B-90),

(5) Snell 1990 Standard for Protective Headgear for Use in Bicycling, including March 9, 1994 Supplement (designation B-90S),

(6) Snell 1994 Standard for Protective Headgear for Use in Non-Motorized Sports (designation N-94), or

(7) Snell 1995 standard for Protective Headgear for Use with Bicycles B-95.

(8) Subparts A through C of this part 1203.

(b) The incorporation by reference of the standards listed in paragraphs (a)(1) through (a)(7) are approved by the Director of the Federal Register in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. Copies of the standards may be obtained as follows. Copies of the ANSI Z90.4 standard are available from: American National Standards Institute, 11 W. 42nd Street, 13th Floor, New York, NY 10036. Copies of the ASTM standards are available from: ASTM, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959. Copies of

**Pt. 1203, Fig. 1**

the Canadian Standards Association CAN/CSA-D113.2-M89 standard are available from: CSA, 178 Rexdale Boulevard, Rexdale (Toronto), Ontario, Canada, M9W 1R3. Copies of the Snell standards are available from: Snell Memorial Foundation, Inc., 6731-A 32nd Street, North Highlands, CA 95660. Cop-

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ies may be inspected at the Office of the Secretary, Consumer Product Safety Commission, 4330 East-West Highway, Bethesda, Maryland 20814, or at the Office of the Federal Register, 800 N. Capitol Street NW, Room 700, Washington, DC.

FIGURES TO PART 1203

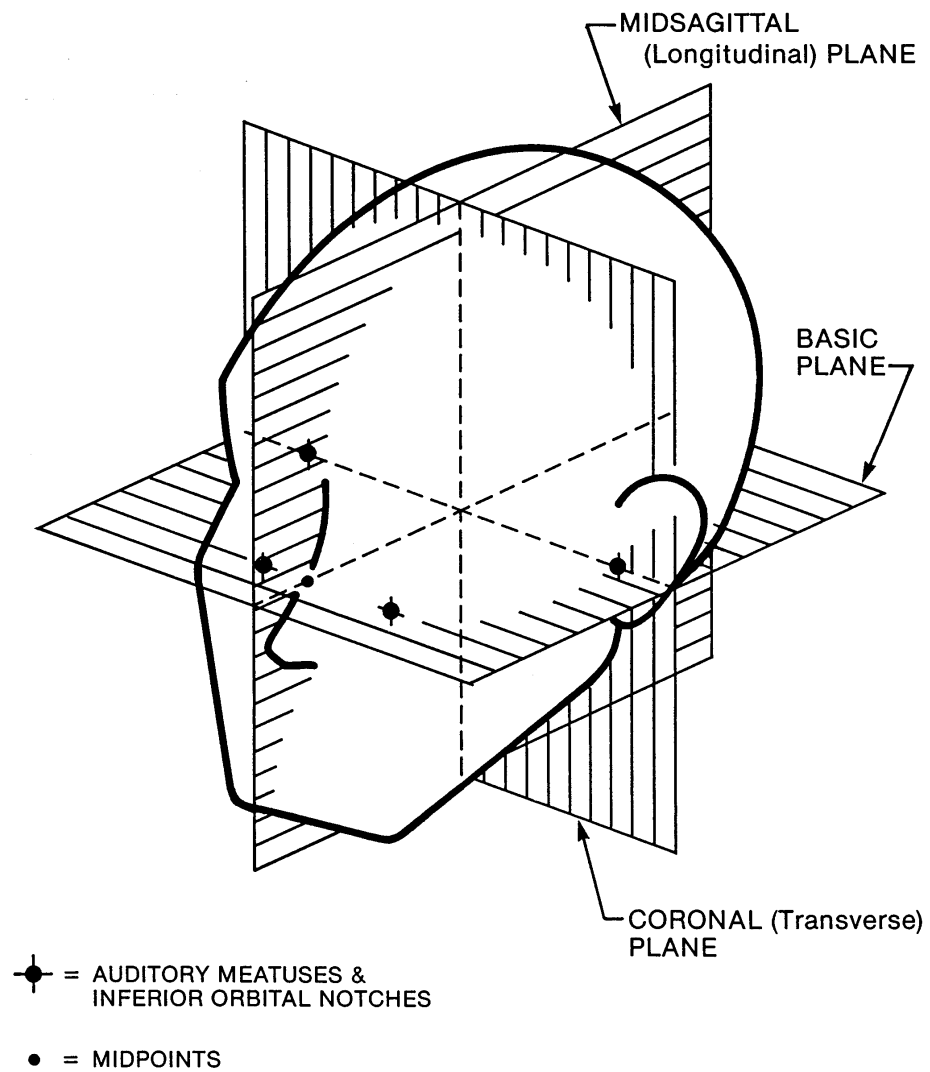


Figure 1. Anatomical Planes

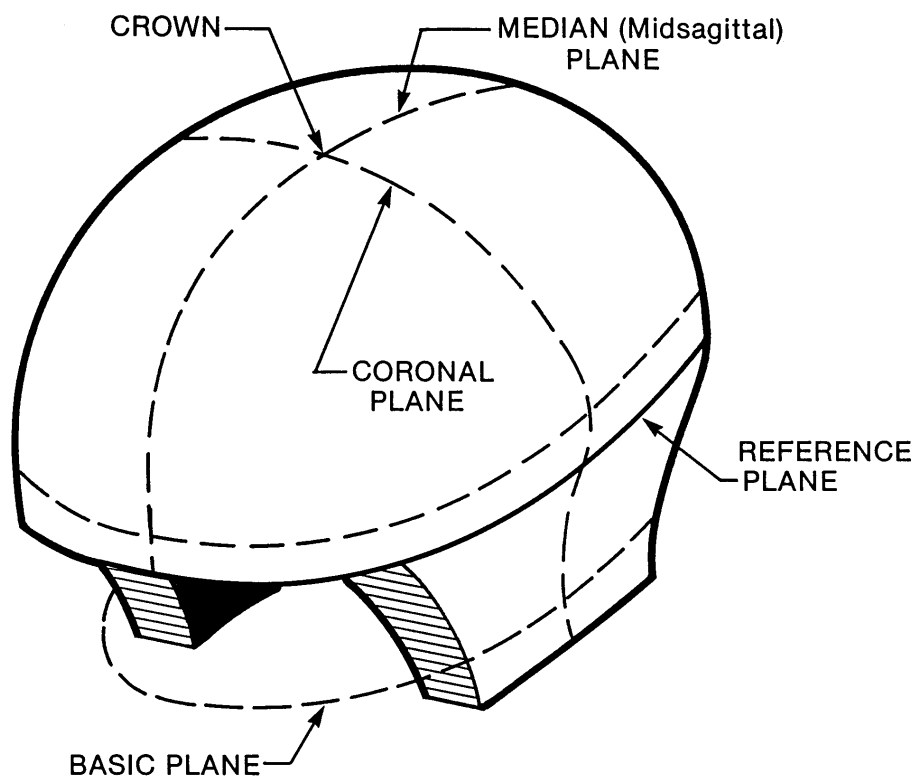
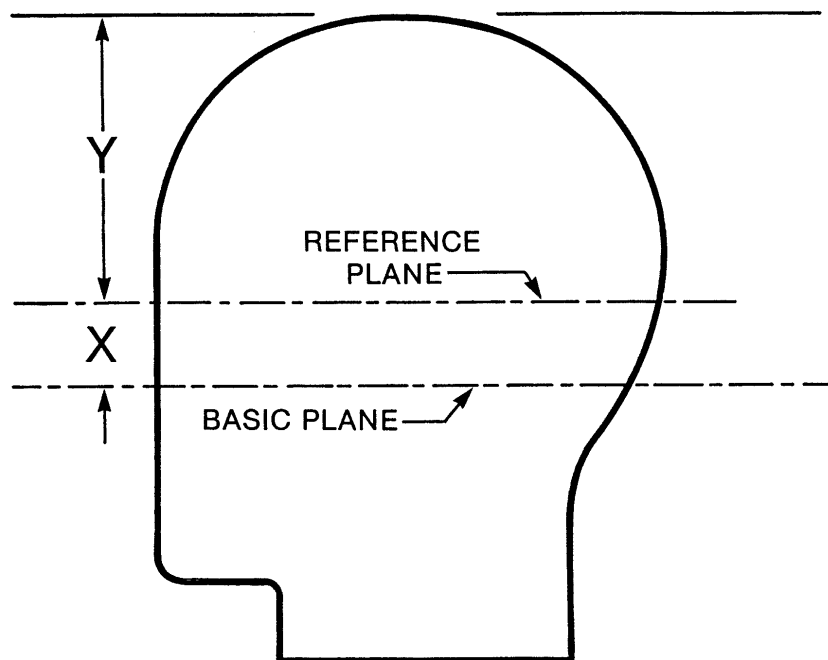


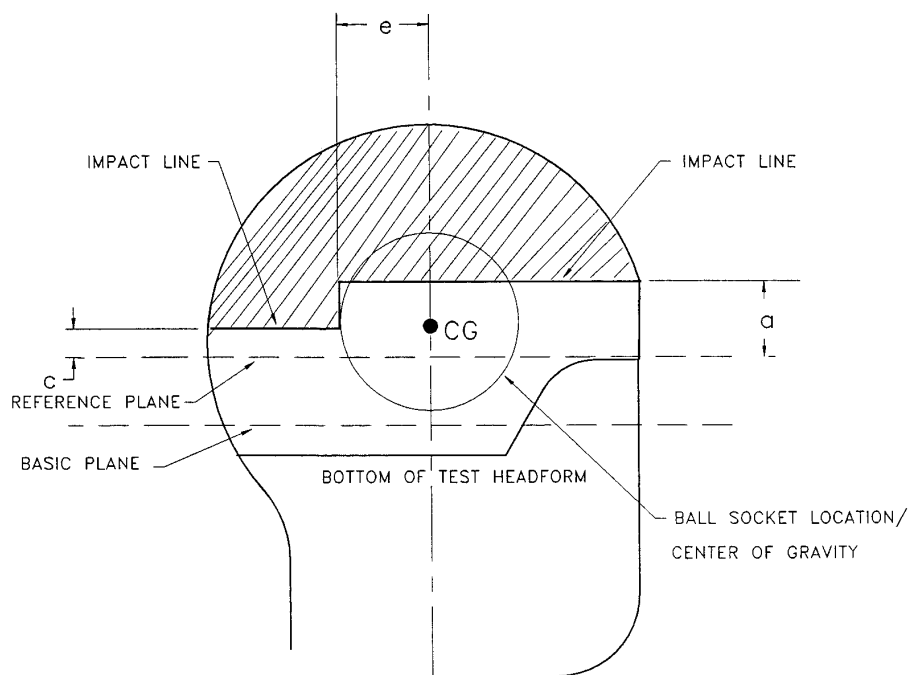
Figure 2. ISO Headform-Basic, Reference, and Median Planes



HEADFORM	SIZE	X	Y
A	500	24	90
E	540	26	96
J	570	27.5	102.5
M	600	29	107
O	620	30	110

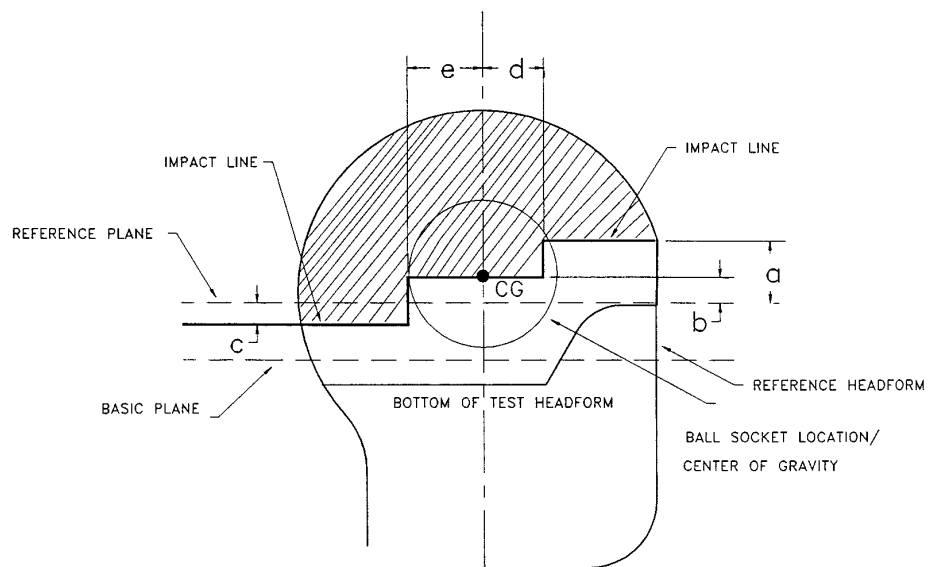
DIMENSIONS IN MILLIMETERS

Figure 3. Location of Reference Plane



HEADFORM	DIMENSIONS mm(in)		
	a	c	e
ISO A	38 (1.49)	27 (1.06)	49 (1.93)
ISO E	39 (1.54)	27 (1.06)	52 (2.05)
ISO J	41 (1.61)	27 (1.06)	54 (2.13)
ISO M	41 (1.61)	27 (1.06)	55 (2.16)
ISO O	42 (1.65)	27 (1.06)	56 (2.20)

**Figure 4. Location of Test Lines for Helmets Intended for Persons Five (5) Years of Age and Older.**



HEADFORM	DIMENSIONS mm (in)				
	a	b	c	d	e
ISO A	30 (1.18)	12.7 (0.50)	15 (0.59)	25 (0.98)	30 (1.18)
ISO E	32 (1.26)	12.7 (0.50)	16 (0.63)	27 (1.06)	32 (1.26)

Figure 5. Location of Test Lines for Helmets Intended for Persons Ages 1 and Older

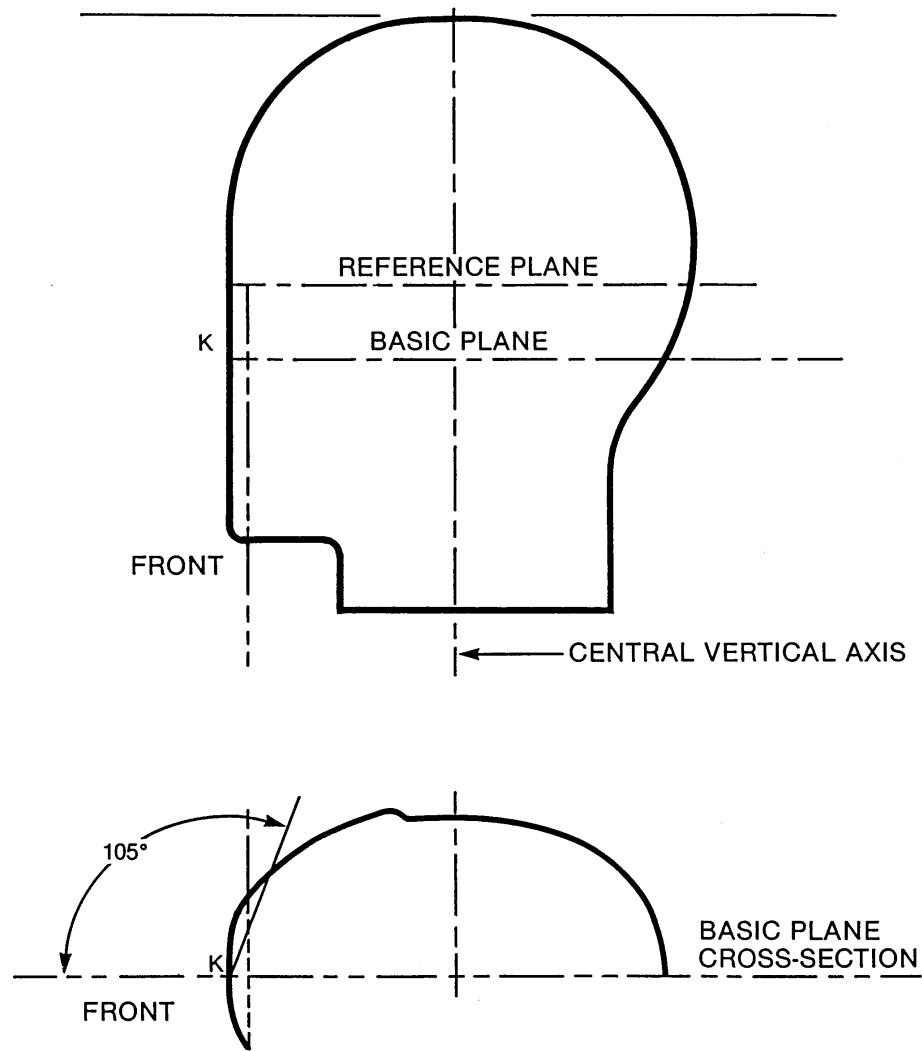


Figure 6. Field of Vision



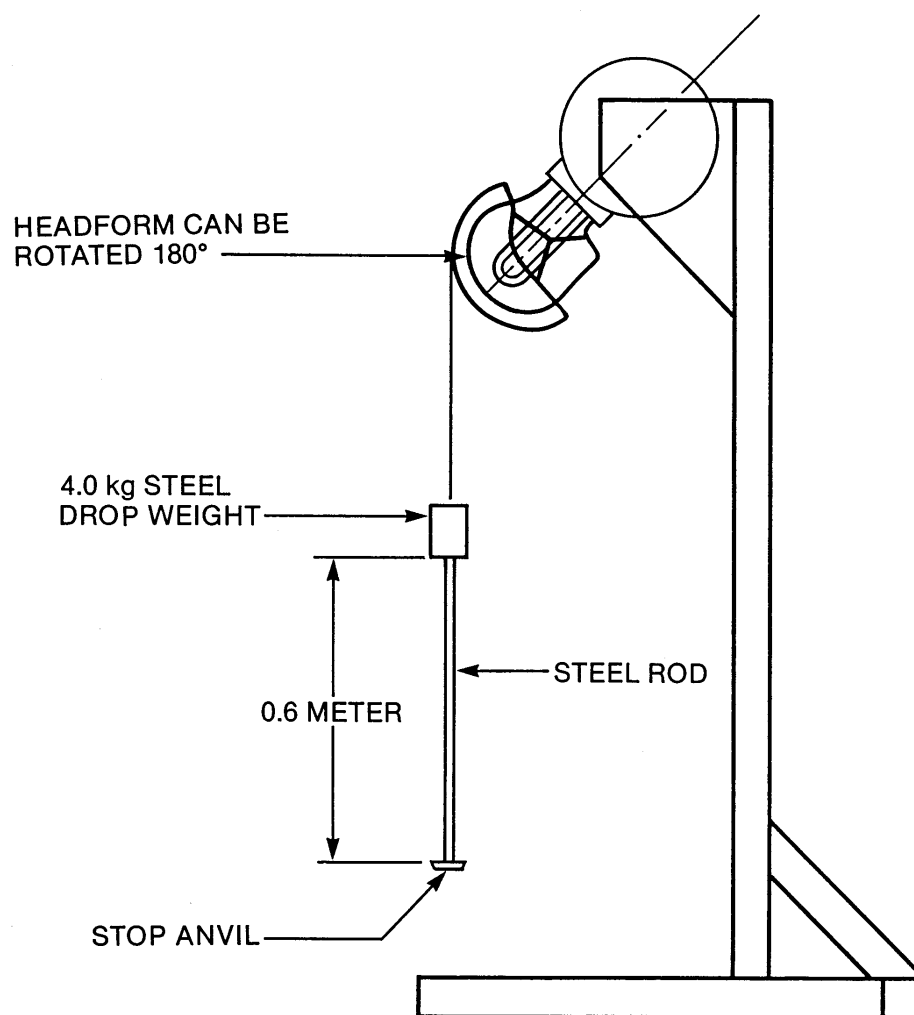


Figure 7. Typical Test Apparatus for Positional Stability Test

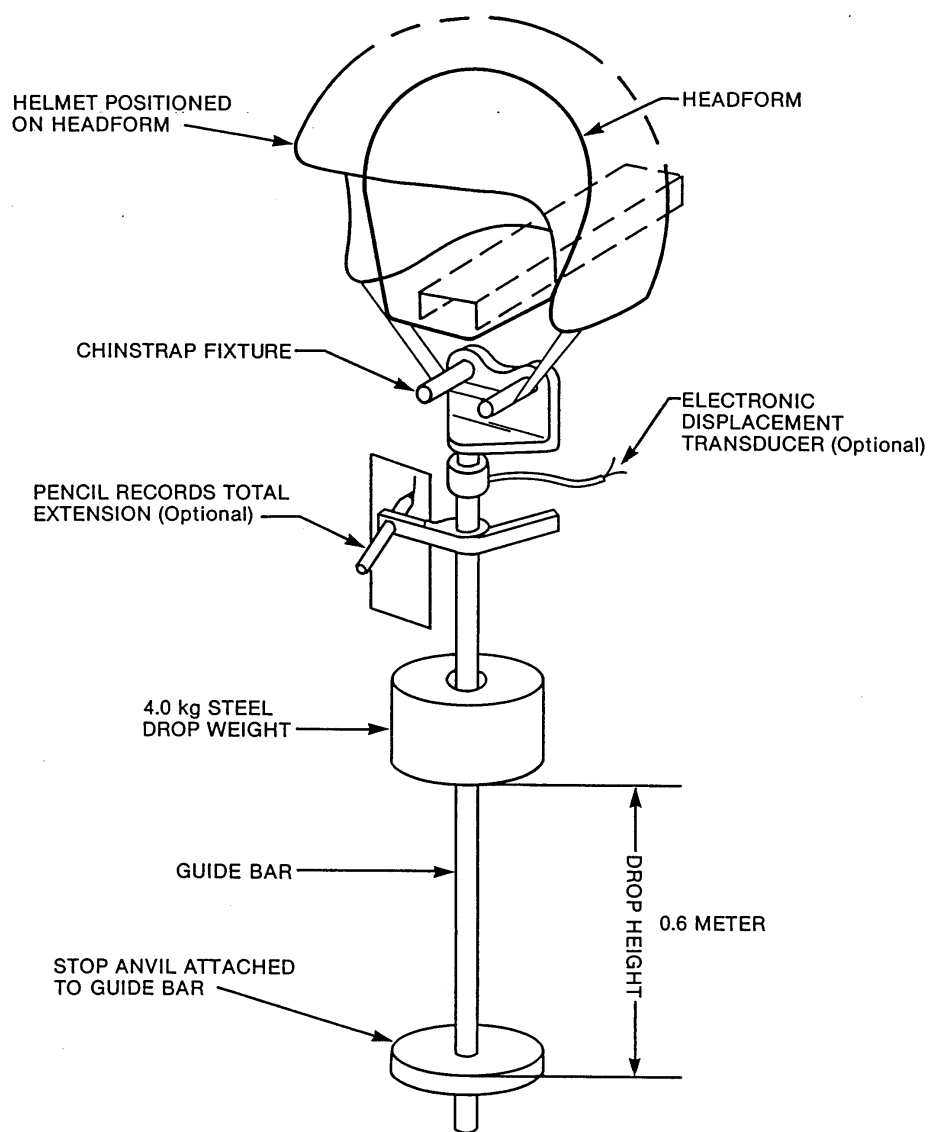


Figure 8. Apparatus for Test of Retention System Strength

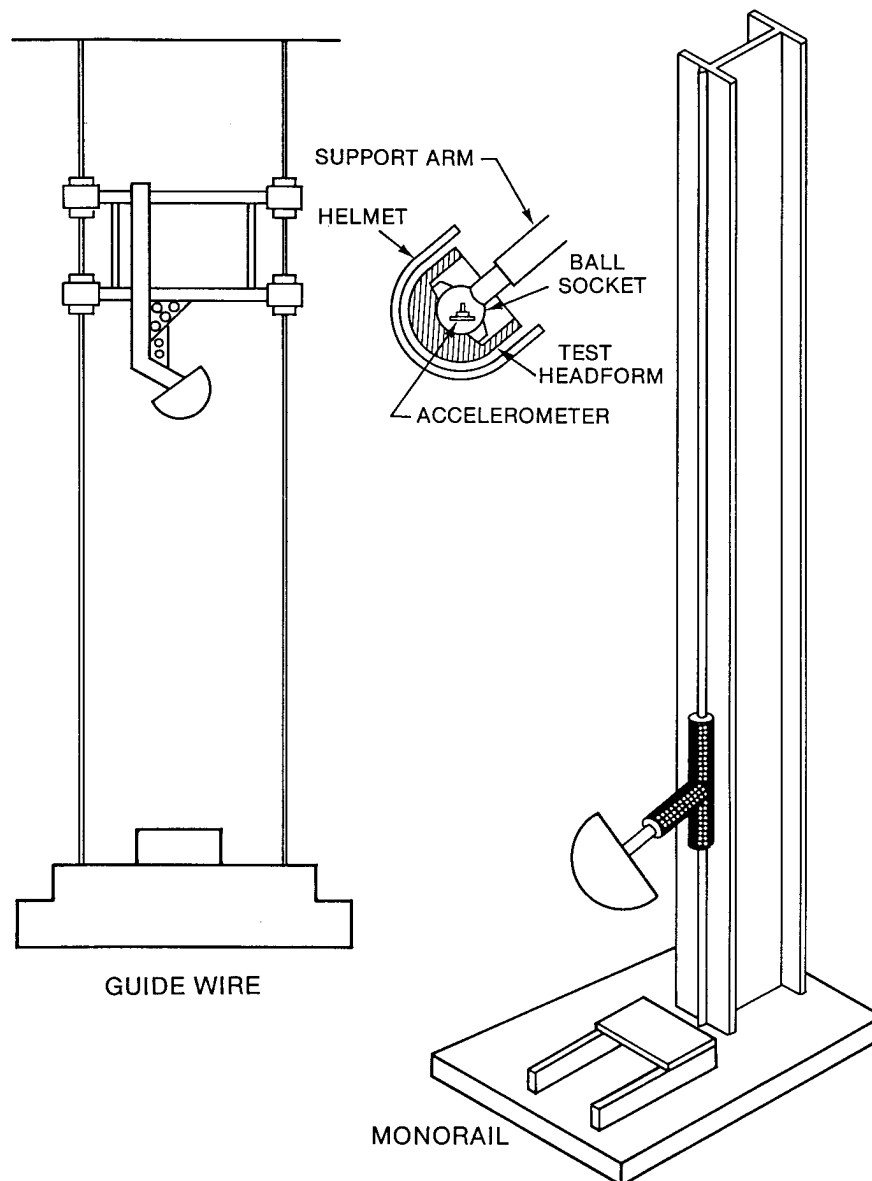
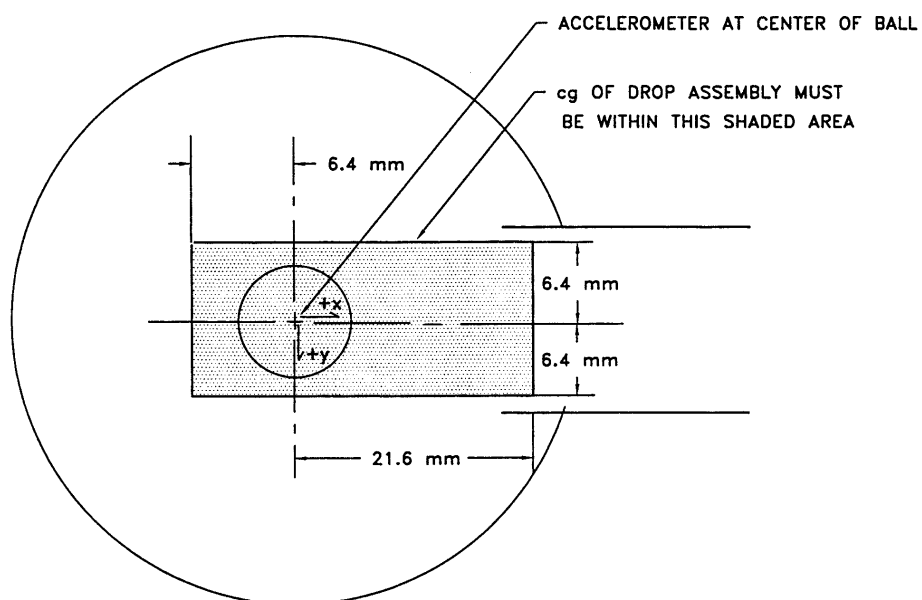


Figure 9. Impact Test Apparatus

**Overhead View of Ball-Arm as Installed on Impact Test Apparatus**



**Figure 10. Center of Gravity for Drop Assembly**

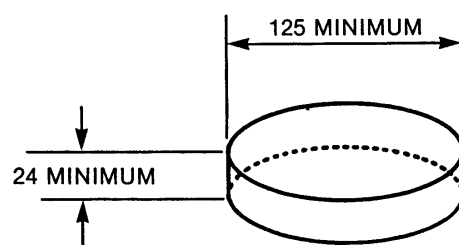


Figure 11. Flat Anvil

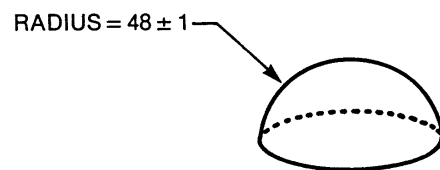


Figure 12. Hemispherical Anvil

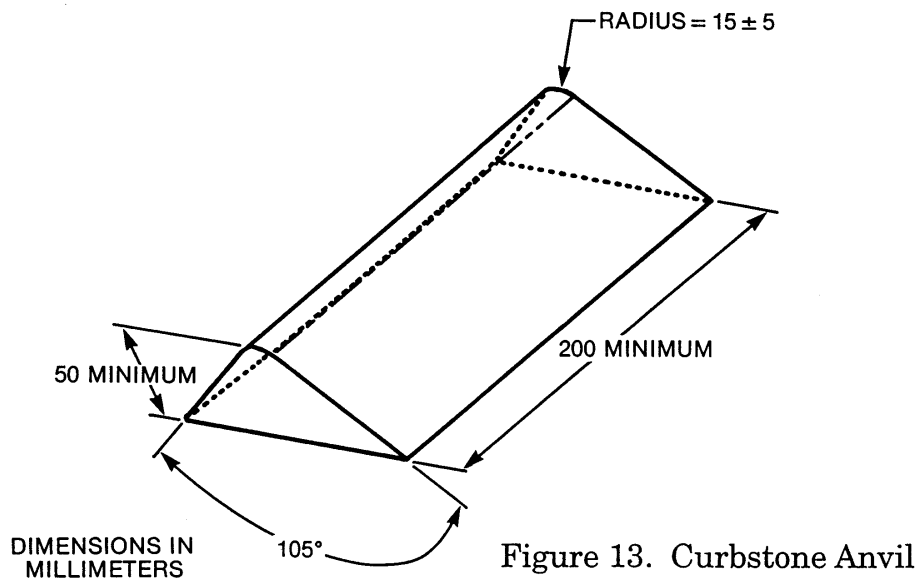


Figure 13. Curbstone Anvil

EFFECTIVE DATE NOTE: At 63 FR 11729, Mar. 10, 1998, part 1203 was revised, effective Mar. 10, 1999. For the convenience of the user, the superseded text follows:

### **PART 1203—SAFETY STANDARD FOR BICYCLE HELMETS**

Sec.

1203.1 Purpose and basis.

1203.2 Scope and effective date.

1203.3 Interim safety standards.

AUTHORITY: Secs. 201–207, Pub. L. 103–267, 108 Stat. 726–729, 15 U.S.C. 6001–6006.

SOURCE: 60 FR 15232, Mar. 23, 1995, unless otherwise noted.

#### **§ 1203.1 Purpose and basis.**

The purpose and basis of this rule is to protect bicyclists from head injuries by ensuring that bicycle helmets comply with the requirements of appropriate existing voluntary standards, as provided in 15 U.S.C. 6004(a).

#### **§ 1203.2 Scope and effective date.**

(a) Bicycle helmets manufactured after March 15, 1995, shall comply with the requirements of one of the standards specified in § 1203.3. This requirement shall be considered a consumer product safety standard issued under the Consumer Product Safety Act.

(b) A bicycle helmet is any headgear marketed as suitable for providing protection from head injuries associated with bicycle use.

(c) These interim mandatory safety standards will not apply to bicycle helmets manufactured after the effective date of a final bicycle helmet standard to be issued in the future by the Commission.

#### **§ 1203.3 Interim safety standards.**

(a) Bicycle helmets must comply with one or more of the following standards, which are incorporated herein by reference:

(1) American National Standards Institute (ANSI) standard Z90.4–1984, Protective Headgear for Bicyclists,

(2) ASTM standards F 1447–93 or F 1447–94, Standard Specification for Protective Headgear Used in Bicycling, incorporating the relevant provisions of ASTM F 1446–93 or ASTM F 1446–94, Standard Test Methods for

Equipment and Procedures Used in Evaluating the Performance Characteristics of Protective Headgear, respectively,

(3) Canadian Standards Association standard, Cycling Helmets CAN/CSA–D113.2–M89,

(4) Snell Memorial Foundation (Snell) 1990 Standard for Protective Headgear for Use in Bicycling (designation B–90),

(5) Snell 1990 Standard for Protective Headgear for Use in Bicycling, including March 9, 1994 Supplement (designation B–90S),

(6) Snell 1994 Standard for Protective Headgear for Use in Non-Motorized Sports (designation N–94), or

(7) Snell 1995 Standard for Protective Headgear for Use with Bicycles B–95.

(b) This incorporation by reference was approved by the Director of the Federal Register in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. Copies of the standards may be obtained as follows. Copies of the ANSI Z90.4 standard are available from: American National Standards Institute, 11 W. 42nd Street, 13th Floor, New York, NY 10036. Copies of the ASTM standards are available from: ASTM, 1916 Race Street, Philadelphia, PA 19103. Copies of the Canadian Standards Association CAN/CSA–D113.2–M89 standard are available from: CSA, 178 Rexdale Boulevard, Rexdale (Toronto), Ontario, Canada, M9W 1R3. Copies of the Snell standards are available from: Snell Memorial Foundation, Inc., P.O. Box 493, 7 Flowerfield, Suite 28, St. James, New York 11780. Copies may be inspected at the Office of the Secretary, Consumer Product Safety Commission, 4330 East-West Highway, Bethesda, Maryland 20814, or at the Office of the Federal Register, 800 N. Capitol Street NW, Room 700, Washington, DC.

### **PART 1204—SAFETY STANDARD FOR OMNIDIRECTIONAL CITIZENS BAND BASE STATION ANTENNAS**

#### **Subpart A—The Standard**

Sec.

1204.1 Scope of the standard.

1204.2 Definitions.

1204.3 Requirements.

1204.4 Electric shock protection tests.

1204.5 Manufacturer's instructions.

1204.6 Findings.